

PTO/SB/08A (08-03)

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<b>Substitute for form 1449/PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/814,527	
			Filing Date	March 30, 2004	
			First Named Inventor	Robert Alpern	
			Art Unit	1615	
			Examiner Name	Thurman K. Page	
Sheet	1	of	1	Attorney Docket Number	29329-714.201

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
M		US-5,186,937	2-16-1993	Sparks et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>1</sup> - Number <sup>2</sup> - Kind Code <sup>3</sup> (if known)				

NON PATENT LITERATURE DOCUMENTS			
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Examiner signature		Date Considered	5/10/07
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Substitute for form 1449/PTO

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(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/814,527
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First Named Inventor	Robert Alpern
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Examiner Name	Thurman K. Page
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Sheet 1 of 1

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M ↓		US-2002/0054903	05-9-2002	Tyler et al.	
		US-3,974,272	08-10-1976	Merck & Co., Inc.	
		US-4,747,881	05-31-1988	Warner-Lambert Company	
		US-4,837,015	06-06-1989	Olsen	
		US-4,902,501	02-20-1990	Prodotti Formenti S.r.L.	
		US-5,091,175	02-25-1992	Erbamont Inc.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		WO 82/00257	02-04-1982	Cerami, Anthony		
		WO 97/49736	12-31-1997	G.D. Searle and Co.		

Examiner  
Signature*Thurman K. Page*

Date

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*07/01/07*

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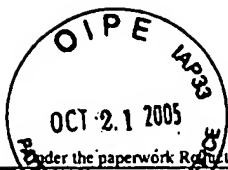
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				First Named Inventor	Robert Alpern
				Art Unit	1615
				Examiner Name	Thurman K. Page
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		Number-Kind Code <sup>2</sup> (if known)			
M	1.	US-2,611,730	09-23-1952	Heming et al.	
	2.	US-2,909,462	10-20-1959	Warfield et al.	
	3.	US-4,143,130	03-06-1979	Imondi	
	4.	US-4,470,975	09-11-1984	Berger	
	5.	US-5,051,253	09-24-1991	Llyod-Jones	
	6.	US-5,141,927	08-25-1992	Krotkiewski	
	7.	US-5,281,631	01-25-1994	Horwitz	
	8.	US-5,374,422	12-20-1994	Pierre	
	9.	US-5,607,669	03-04-1997	Mandeville	
	10.	US-5,633,344	05-27-1997	Figuly	
	11.	US-5,718,920	02-17-1998	Notenbomer	
	12.	US-6,294,163	09-25-2001	Dhal	
	13.	US-2002/0146386 A1	10-10-2002	Simon et al.	
	14.	US-2003/0027789 A1	02-06-2003	Yamaoka et al.	

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		Country Code <sup>3</sup> - Number <sup>2</sup> - Kind Code <sup>3</sup> (if known)				
M	15.	EP 0730494 B1	02-04-1998	Salternate B.V.		
	16.	WO 01/51063 A1 (with English abstract)	07-19-2001	Otsuka Pharmaceutical Factory, Inc.		
	17.	WO 02/062356 A2	08-15-2002	Ash Medical Systems, Inc.		
	18.	WO 02/40039 A2	05-23-2002	The Dow Chemical Company		
	19.	WO 92/10522	06-25-1992	Imperial Chemical Industries PLC		
	20.	WO 94/27619	12-08-1994	Geltex, Inc.		
	21.	WO 95/14531	06-01-1995	Sansel		

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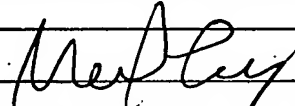
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			Filing Date	March 30, 2004	
			First Named Inventor	Robert Alpern	
			Art Unit	1615	
			Examiner Name	Thurman K. Page	
Sheet	2	of	3	Attorney Docket Number	29329-714.201

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
M	22.	Berlyne, G.M., et al. "Cation exchange resins in hyperkalaemic renal failure." (1967) Israel J Med Sci 3(1): 45-52	
	23.	Chourasia, M.K., et al., "Pharmaceutical approaches to colon targeted drug delivery systems." (2003) J. Pharm Pharm Sci 6(1): 33-66.	
	24.	Corcoran, A.C., et al., "Controlled observations on the effect of low sodium dietotherapy in essential hypertension." (1951) Circulation 3(1): 1-16.	
	25.	Danowski, T.S., et al., "Changes in fecal and serum constituents during ingestion of cation and anion exchangers." (1953) Ann N Y Acad Sci. 57(3): 273-9	
	26.	Emerson, K., Jr., et al., "The role of the gastro-intestinal tract in the adaptation of the body to the prevention of sodium depletion by cation exchange resins." (1953) Ann N Y Acad Sci. 57(3): 280-90	
	27.	Emmett, M., et al. "Effect of Three Laxatives and a Cation Exchange Resin on Fecal Sodium and Potassium Excretion." (1995) Gastroenterology 108(3): 752-60	
	28.	Evans, B.M., et al. "Ion-exchange resins in the treatment of anuria." (1953) Lancet 265(6790): 791-5	
	29.	Field, H., Jr., et al., "Electrolyte changes in ileal contents and in feces during restriction of dietary sodium with and without the administration of cation-exchange resin." (1955) Circulation 12(4): 625-9	
	30.	Field, H., Jr., et al., "Mechanisms regulating the retention of sodium in the feces by cation-exchange resin: release of base from the resin by bacterial fermentation in the terminal ileum." (1958) J Lab Clin Med 51(2): 178-84	
	31.	Fourman, P. "Capacity of a cationic exchange resin (zeo-karb 225) in vivo." (1953) British Medical Journal 1(4809): 544-6	
	32.	Greenman, L., et al. "Biochemical changes accompanying the ingestion of a carboxylic cation exchanger in the hydrogen, ammonium, sodium, potassium, or calcium form." (1951) J Clin Invest. 30(9): 995-1008	
	33.	Gruy-Kapral, C., et al., "Effect of single dose resin-cathartic therapy on serum potassium concentration in patients with end-stage renal disease." (1998) J Am Soc Nephrol 9(10): 1924-30	
	34.	Harthorn, J.G.L., et al., "A CASE OF UREMIA AND HYPERPOTASSEMIA TREATED WITH SULPHONIC CATION-EXCHANGE RESIN" (1952) Acta Med Scan., 144(3): 230-6	

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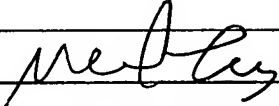
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M	35.	Heming A. E., et al., "Considerations in the selection of cation exchange resins for therapeutic use." (1953) Ann N Y Acad Sci. 57(3):239-51	
	36.	Irwin, L., et al. "The effect of a cation exchange resin on electrolyte balance and its use in edematous states." (1949) J Clin Invest. 28(6, Pt. 2): 1403-11	
	37.	Kohlstaedt, K.G., et al., "Clinical experience with mixtures of anion and cation exchange resins." (1953) Ann N Y Acad Sci. 57(3): 260-72	
	38.	Mason N.S., et al., "A new ion exchanger with high in vivo sodium capacity." (1985) Kidney Int Suppl. 28(17): S178-182	
	39.	Mateer, F.M., et al., "SODIUM RESTRICTION AND CATION EXCHANGE RESIN THERAPY IN NEPHROTIC CHILDREN" (1951) J Clin Invest. 30(9): 1018-26	
	40.	McChesney, E.W. "Effects of long-term feeding of sulfonic ion exchange resin on the growth and mineral metabolism of rats." (1954) Am J Physiol. 177(3):395-400	
	41.	McChesney, E.W., et al., "Some aspects of cation exchange resins as therapeutic agents for sodium removal." (1953) Ann N Y Acad Sci. 57(3):252-9	
	42.	Moustafine R.I., et al., "Characteristics of interpolyelectrolyte complexes of Eudragit E 100 with sodium alginate." (2005) Int J Pharm 294(1-2): 113-20	
	43.	Root, M.A., "Comparison of the in vivo sodium-removing activity of various types of ion exchange resins in rats." (1953) J Lab Clin Med 42(3): 430-7	
	44.	Ross, E.J., et al. "Observations on cation exchange resins in the small and large intestines." (1954) Clin Sci 13(4): 555-66	
V	45.	Tust, R. H., et al., "THE EFFECTS OF MALETHAMER ON THE EXCRETION AND PLASMA LEVELS OF SODIUM, POTASSIUM, AND CHLORIDE (34990)" (1970) Proc Soc Exp Biol Med. 135(1): 72-6	
	46.	Wrong, O., et al., "The electrolyte content faeces." (1965) Proc R. Soc Med 58(12): 1007-9	

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				Examiner Name	Gary L. Kunz
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M K	1.	US 5,667,775	09-16-1997	Holmes-Farley et al.	
	2.	US 6,881,484 B2	04-19-2005	Kataoka et al.	
	3.	US 2004/0166156 A1	08-26-2004	Tyler et al.	
	4.	US 2005/0036983 A1	02-17-2005	Simon et al.	

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				Art Unit	1614
				Examiner Name	Phyllis G. Spivack
Sheet	1	Of	1	Attorney Docket Number	29329-714.201

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M J	14.	US 4,605,701	08-12-1986	Harada et al.	
	15.	US 5,618,530	04-08-1997	Mandeville III, et al.	
	16.	US 5,679,717	10-21-1997	Mandeville III, et al.	
	17.	US 5,693,675	12-02-1997	Mandeville, III et al.	
	18.	US 2003/0065090 A1	04-03-2003	Kelly et al.	

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	20.	JP 1998130154A	05-19-1998	Otsuka Pharmaceutical Factory Inc., et al.		X

## NON PATENT LITERATURE DOCUMENTS

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M J	21.	FRIEDMAN, Eli A., Clinical Aspects of Uremia and Dialysis/ Sorbent Therapy in Uremia 671-687. (Shaul G. Massry & Alvin L. Sellers eds., 1976).	
	22.	FRIEDMAN, Eli A., et al. 1976. Combined oxystarch-charcoal trial in uremia: Sorbent-induced reduction in serum cholesterol. <i>Kidney International</i> . 10: S-273-S-276.	
	23.	IMONDI, A.R., et al. 1981. Gastrointestinal Sorbents for the Treatment of Uremia. I. Lightly Cross-Linked Carboxyvinyl Polymers. <i>Ann Nutr Metabol</i> . 25(5): 311-319.	

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				Application Number	10/814,527
				Filing Date	March 30, 2004
				First Named Inventor	Robert Alpern
				Art Unit	1614
				Examiner Name	Phyllis G. Spivack
Sheet	1	Of	1	Attorney Docket Number	29329-714.201

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<i>ML</i>	24.	THIES, Curt. 1982. Microcapsules as drug delivery devices. <i>Crit Rev Biomed Eng.</i> 8(4): 335-383.	

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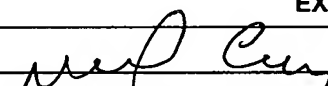
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Application Number	10814527
Filing Date	2004-03-30
First Named Inventor	Robert Alpern
Art Unit	1615
Examiner Name	Eric E. Silverman
Attorney Docket Number	ILPS 04021.101

1	AGARWAL, et al., Pathophysiology of Potassium Absorption and Secretion by the Human Intestine, Gastroenterology, 1994, Vol. 107, pp. 548-571, American Gastroenterological Association	<input type="checkbox"/>
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3	SALAS-COLL, et al., Potassium transport across the distal colon in man, Clinical Science and Molecular Medicine, 1976, Vol. 51, pp. 287-296	<input type="checkbox"/>
4	SPENCER, et al., Cation Exchange In The Gastrointestinal Tract, 1954, pp. 603-606, Medical Unit, University College Hospital Medical School, London, W.C.1	<input type="checkbox"/>
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Filing Date	2004-03-30
First Named Inventor	Robert Alpern
Art Unit	1615
Examiner Name	Eric E. Silverman
Attorney Docket Number	ILPS 04021.101

	1	DAI, et al, Controlling Ion Transport through Multilayer Polyelectrolyte Membranes by Derivatization with Photolabile Functional Groups, Macromolecules, 2002, Vol. 35, pp. 3164-3170, American Chemical Society.	<input type="checkbox"/>
	2	ESTRELA-LOPIS, et al., SANS Studies of Polyelectrolyte Multilayers on Colloidal Templates, Langmuir, 2002, Vol. 18, pp. 7861-7866, American Chemical Society.	<input type="checkbox"/>
	3	GERSTMAN, et al., Use Of Sodium Polystyrene Sulfonate In Sorbitol In The United States, 1985-1989, Vol. XVIII, No. 5 (November), 1991, pp. 619-621, American Journal of Kidney Diseases.	<input type="checkbox"/>
	4	KIM, et al., Therapeutic Approach to Hyperkalemia, Nephron, 2002, 92 (suppl 1), pp. 33-40, Division of Nephrology, Department of Internal Medicine, Hanyang University Kuri Hospital, Kuri, Korea.	<input type="checkbox"/>
	5	MESZAROS, et al., Adsorption of Poly(ethyleneimine) on Silica Surfaces: Effect of pH on the Reversibility of Adsorption, Langmuir, 2004, Vol. 20, pp. 5026-5029, American Chemical Society.	<input type="checkbox"/>
	6	PICART, et al., Microinterferometric Study of the Structure, Interfacial Potential, and Viscoelastic Properties of Polyelectrolyte Multilayer Films on a Planar Substrate, J. Phys. Chem. B, 2004, Vol. 108, pp. 7196-7205, American Chemical Society.	<input type="checkbox"/>

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